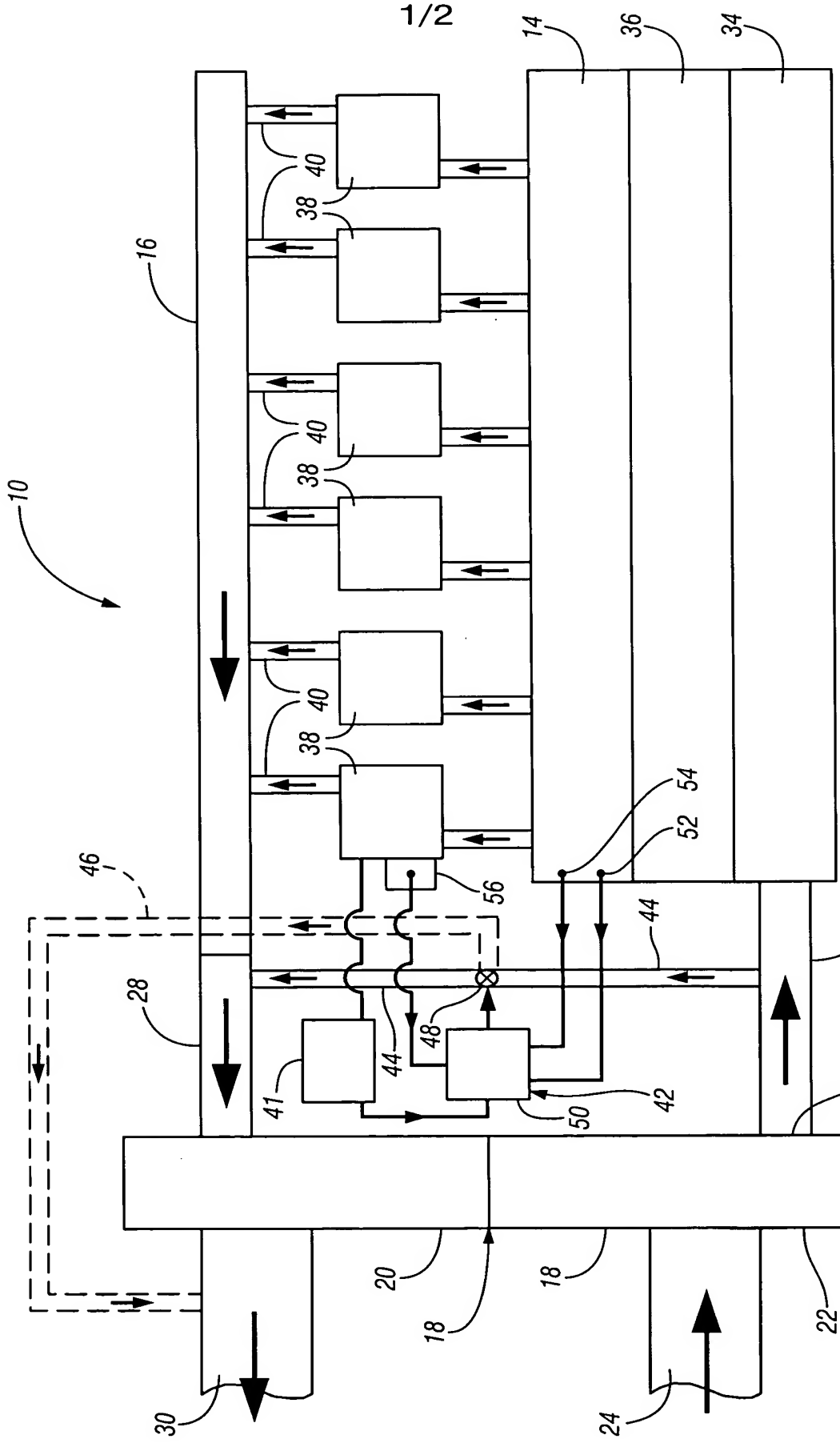
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FIG. 1

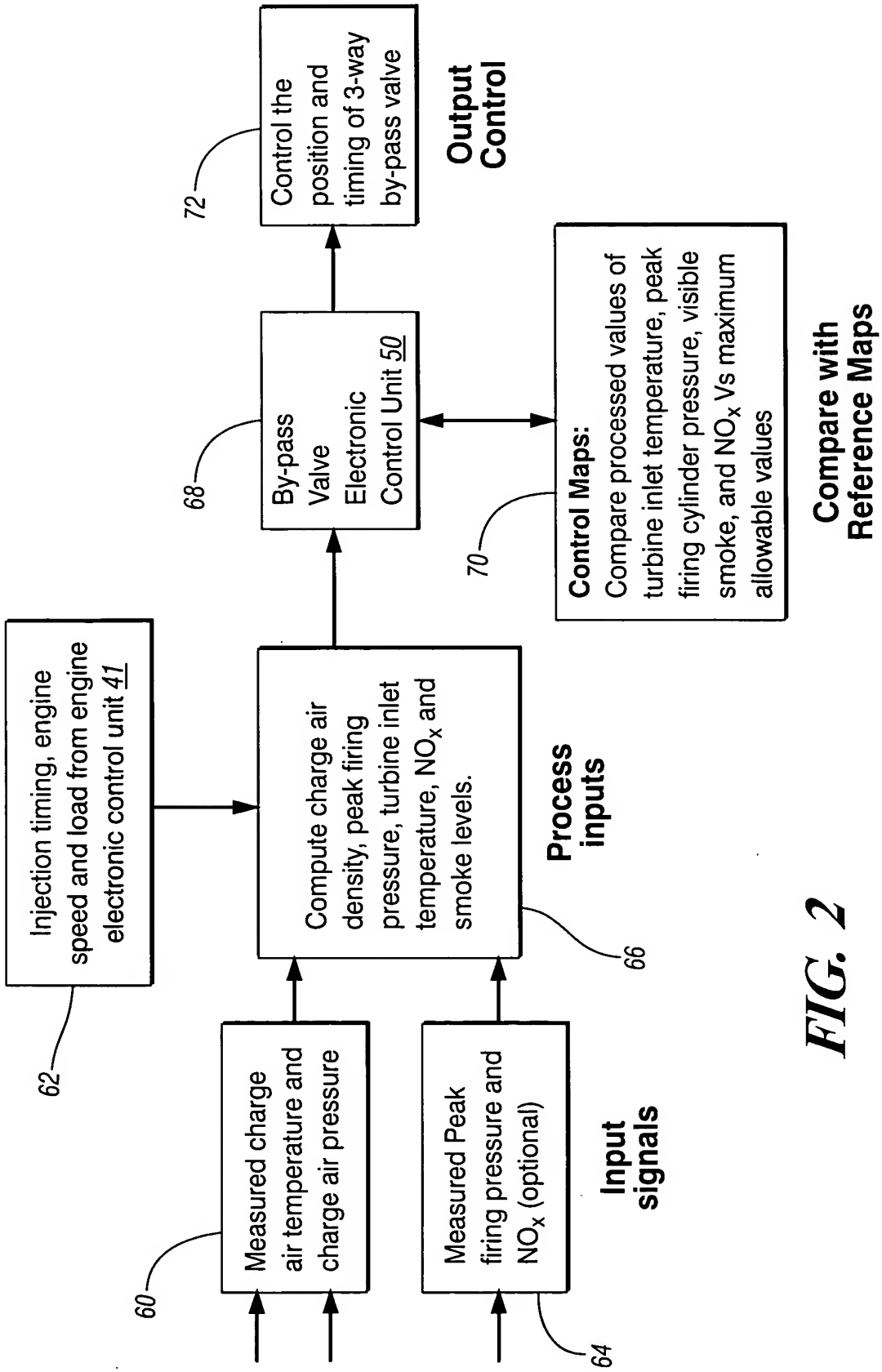
Measured charge air temperature and charge air pressure
60
Measured Peak firing pressure and NO_x (optional)
64
Input signals
Injection timing, engine speed and load from engine electronic control unit 41
62
Compute charge air density, peak firing pressure, turbine inlet temperature, NO_x and smoke levels.
66
Process inputs
By-pass Valve Electronic Control Unit 50
68
Control Maps:
Compare processed values of turbine inlet temperature, peak firing cylinder pressure, visible smoke, and NO_x Vs maximum allowable values
70
Compare with Reference Maps
Control the position and timing of 3-way by-pass valve
72
Output Control

FIG. 2